UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,025	07/02/2003	Kevin T. Chan	14885US01	5831
23446 7590 01/25/2008 MCANDREWS HELD & MALLOY, LTD			EXAMINER	
	DISON STREET		DAVENPORT, MON CHERI S	
SUITE 3400 CHICAGO, IL 60661			ART UNIT	PAPER NUMBER
emendo, in			2616	
	•		· · · · · · · · · · · · · · · · · · ·	
		•	MAIL DATE	DELIVERY MODE
			01/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summer	10/612,025	CHAN, KEVIN T.			
Office Action Summary	Examiner	Art Unit			
	Mon Cheri S. Davenport	2616			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be to the state of the state	N. imely filed  In the mailing date of this communication.  ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 04 Se	eptember 2007.				
3) Since this application is in condition for allowan					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	.53 O.G. 213.			
Disposition of Claims		•			
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-30</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner	·				
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the c	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ol	ojected to. See 37 CFR 1.121(d).			
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a	n)-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
<ol><li>Copies of the certified copies of the priori</li></ol>	ty documents have been receiv	ed in this National Stage			
application from the International Bureau					
* See the attached detailed Office action for a list of	of the certified copies not receiv	ed.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date.  Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

10/612,025 Art Unit: 2616 ,

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-30 rejected under 35 U.S.C. 102(b) as being anticipated by Bontemps et al. (US Patent Number 5,923,663)

Regarding claim 1, 11, and 21 Bontemps et al. discloses a method for providing and configuring secure communication links, the method comprising:

determining any one usable media pair from all existing media pairs (Ethernet 100Base-T4) of a first device (see, figure 3, see col 12, lines 35-38, the Ethernet 100base-t4 configuration, of a automatic media detection circuit (see col. 3, lines 44-46, established a working communication link) working communication link reads on usable media pair);

selecting any one channel (see figure 3, contact pairs 314 to contact pairs 312, signal pairs 322a-d) from all existing channels (see figure 3, different channels from 314 to 312), said selected any one channel being different from a general channel assignment corresponding to said determined any one usable media pair (see col. 12-13, lines 58-7, the select logic (reads on channel assignment), select and connect the contact pairs); and

assigning said selected any one channel to said any one media pair (see col. 13, lines 30-36, the logic state machine (figure 4), is provided for each of the ports, a link detect signal

10/612,025 Art Unit: 2616

asserts a xover \_selx signal, which reads on the when the channels are assigned to the media pair, (working communication link)).

Regarding Claims 2, 12 and 22, Bontemps et al. discloses everything as claimed above (see claims 1, 11 and 21).

notifying a second device (DFF, figure 4) of said assigned any one channel which corresponds to said any one media pair (see figure 4, section DFF (D-type flip-flop), see col. 13-14, lines 60-2, the DFF asserts the Xover\_sel1 signal at its output, it receives the assignment signal xover\_sel)

Regarding Claims 3, 13 and 23, Bontemps et al. discloses everything as claimed above (see claims 2, 12 and 22).

cross-connecting a corresponding channel and media pair for said second device, said cross-connected channel and media pair being equivalent to said selected any one channel assigned to said any one media pair (see col. 13, lines 9-28, table of crossover configurations).

Regarding Claims 4, 14, and 24, Bontemps et al. discloses everything as claimed above (see claims 1, 11, and 21).

negotiating said assignment of said selected any one channel to said any one media pair (see col. 14, lines 46-53, the DFF is in toggle mode, toggling (reads on negotiating) the xover\_sell signals)

10/612,025 Art Unit: 2616

Regarding Claims 5, 15, and 25, Bontemps et al. discloses everything as claimed above (see claims 1, 11, and 21).

selecting from a plurality of predetermined channel and media pair assignments, a particular one of said channel and media pair assignment (see col. 14, lines 46-53, the link detect1 signal is asserted, which detects a valid communication link, selected)

Regarding Claims 6, 16, and 26, Bontemps et al. discloses everything as claimed above (see claims 1, 11, and 21).

designating a first combination of said channel assigned to said any one media pair as a communication channel and media pair (see col. 13, 9-29, channel assignments, as shown in table 6, see figure 3 and 4, see col. 12, lines 56-67, the select logic select the first and second contacts, designating a channel assignment), and

designating a second combination of said channel assigned to said any one media pair as a control channel (figure 4, DFF) and media pair (port1-n, connected to media pair) (see col. 13, lines 25-29, the QS3390 quick switch is used to implement the select logic (to complete the straight through and crossover connections), see also col. 13-14, lines 67-5, the DFF within all the ports1-n assure all the muxes of the select logic are in the same phase (which reads on the DFF is the control channel of the select logic, controlling the straight through and crossover connection)

Regarding Claims 7, 17 and 27, Bontemps et al. discloses everything as claimed above (see claims 6, 16 and 26).

10/612,025 Art Unit: 2616

securely (reads on working) transferring communication traffic via said communication channel and media pair(see col. 15, lines 20-24, the automatic media detection circuit, establishes a working communication link)

Regarding Claims 8, 18, and 28, Bontemps et al. discloses everything as claimed above (see claims 7, 17, and 27).

securely transferring control information via at least one of said communication channel and media pair (see col. 13, lines 29-45, control information is XOVER\_SELx and LINK\_DETECTx signals)

Regarding Claims 9, 19 and 29, Bontemps et al. discloses everything as claimed above (see claims 8, 18, and 28).

monitoring at least one of said communication channel and media pair by a second device(see col. 14, lines 46-54, Phy device knows (which reads on monitoring) when communication signals are lost); and

determining said selected any one channel assigned to said any one media pair (see col 4, lines 46-54, when communication signals are lost, DFF toggles until link is detected,)

Regarding Claims 10, 20 and 30, Bontemps et al. discloses everything as claimed above (see claims 9, 19, and 29).

said control information is at least one of authentication information, encryption information, channel setup information and link provisioning and link maintenance information(

10/612,025 Art Unit: 2616

see col. 29-36, the control information LINK\_DETECTx and XOVER\_SELx, provide channel setup and link information).

With respect to <u>claims 21-30</u>, it is noted that the language used by Applicant merely suggests or makes optional those features described as "adapted to"; such language does not require steps to be performed nor limits the claim to a particular structure. In re Hutchison, 69 USPQ 138. See MPEP 2111.04.

## Citation of Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dove et al. (US Patent Number 6,175,865) automatic configuring media connections.

Berman et al. (US Patent Number 7,127,624) management of media pairs using MDIX.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mon Cheri S. Davenport whose telephone number is 571-270-1803. The examiner can normally be reached on Monday - Friday 8:00 a.m. - 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/612,025

Art Unit: 2616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MD/md January 20, 2008 SUPERVISORY PARKET EXCENTER TECHNOLOGY CENTER 2010